LAND APPLICATION OF BIOSOLIDS WESLEY A. WALKER

KW 40 (FIELDS 1-5,8,12) KING WILLIAM COUNTY, VIRGINIA April 2020





APRIL 16, 2020

Mr. Neil Zahradka

Department of Environmental Quality
Piedmont Regional Office
4949-A Cox Road
Glen Allen, VA 23060

Dear Mr. Zahradka,

Transmitted herein for your consideration is land application site for Wesley A. Walker (designated as KW 40, fields 1-5,8,12), located in King William County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,

Wayne T. Webb Jr.

Technical Services Manager



FIELD SUMMARY SHEET

Wesley A. Walker

KW 40

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FIELD TYPE	OWNER
40-01	42.0	42.0		Agriculture	Wesley Walker III
40-02	7.3	7.3		Agriculture	Wesley A. Walker
40-03	21.4	21.4		Agriculture	Wesley A. Walker
40-04	15.8	15.8		Agriculture	Wesley A. Walker
40-05	76.8	76.8		Agricultura	Wesley A. Walker
40-03	70.0	70.0		Agriculture	Sandra F. Walker
40-08	48.9	48.9		A ani audtura	Henry L. Previs
40-06	40.9	40.9		Agriculture	Gregory J. Previs Et Als
40-12	74.8	74.8		Λ a.u.i a l.t	Wesley A. Walker
40-12	74.0	/4.0		Agriculture	Sandra F. Walker
					The second secon
Total	287.0	287.0			05/13/2020



VIRGINIA REQUEST AND CONSENT FOR BIOSOLIDS

FARM OPERATOR: WESLEY	Walker	PHONE: (1804-512-8155
ADDRESS: 1215 Green L	arel Bol. King L		
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FARM LOCATION:	- 超[round in lead in but a state or	author podkoligge basi nor sittehus
FSA TRACT #:	at he have add even the shill	ardento basolne the most	prosprietation the soil. If lime is
	COUNTY:	King William	organic material, when a food to
crops: Com, Soybean,		3	
51(6) 6. <u>50(7) 50 1 (10)</u>	artativa impally evaluates t	siugelida, a Synagro i spie s i	Car e the fano operator requests
I agree to be responsible for adh	ering to the following co	enditions, where applicable	field conditions. If ne form is his
 a. The soil pH will be adjusted of lime-treated biosolids). 	≥6.0 when biosolids are	applied. (This may be acc	complished through the application
	land for 30 days after the	he application of biosolids	. In addition, animals intended for
dairy production should not l	pe allowed to graze on t	he land or be fed chopped	I foliage for 60 days after the
application of biosolids. Mea	t-producing livestock sh	ould not be fed chopped f	oliage for 30 days after the
application of biosolids.	on reducing to a woodheer or	v vam abilosoid to vilidetiev A	become available to the fields.
 Food crops for direct human harvested for 14 months after 	consumption with narve	ested parts below the surf	ace of the land shall not be
d. Food crops for direct human	consumption with harve	ested parts below the surfa	
harvested for 20 months after	er the application of bios	olids when the biosolids re	emain on the land surface ≥ 4
	into the soil or 38 mon	ths when the biosolids ren	nain on the land surface < 4 months
prior to incorporation.	6 1	Lance of the Co. I will be	Frequencial of engineering set a toli
e. Food crops, feed crops andf. Public access to land with a			r application of biosolids. uses infrequently including but not
limited to agricultural land an	nd forests) shall be restr	icted for 30 days after ann	lication of biosolids. Public access
to land with a high potential	for public exposure (land	d the public uses frequent	ly including but not limited to a
public contact site such as p	arks, playgrounds and g	olf courses) shall be restr	icted for 1 year. No biosolids-
amended soil shall be excav	ated or removed from the	ne site for 30 days followin	g the biosolids application unless
adequate provisions are mad	to prevent public exp	osure to soils, dusts or ae	rosols.
g. Turf grown on land where bid when the harvested turf is plant			year after application of biosolids
otherwise specified by the pe		a night potential for public	exposure of a lawn, unless
 h. Supplemental commercial fe 	rtilizer or manuré applic		ted with the biosolids applications
such that the total crop need	s fro nutrients are not e	xceeded as identified on the	ne nutrient balance sheet or the
			on and Recreation to be supplied to
the farm operator by Synagro i. Tobacco, because it has bee			c permitted site. grown for three years following the
application of biosolids-borne	e cadmium equal to or e	exceeding 0.45 lbs/acre	grown for three years following the
2. I understand that this transaction i	s not contemplated by t	he parties to be a sale of o	goods, and that Synagro is willing to
provide to me without charge the s	ervice of land applying b	piosolids which have been	approved by the appropriate
regulatory agencies for land application		and calons alone rarely in	
3. I understand that successful crop	production depends on	many variables, such as	weather, soil conditions and
specific farming practices and that who properly accommodating agricultural	nractices to biosolide u	ence with land application	of blosolids, the responsibility for
"Important Information About Using E	Biosolids as a Fertilizer"	which is on the reverse sign	i nave also read and understand the
this Request and Consent.	t il disorbin net yam renasn	ametro ic tra productiony of	
4D WICH	Ω .		7/21/2070

Synagro * 10647 Tidewater Trail * Champlain, VA 22438 * 804.443.2170

SYNR&CVA * 04/07

OPERATOR'S SIGNATURE

WHITE: Regional Office

CANARY: Landowner

DATE

IMPORTANT INFORMATION ABOUT USING BIOSOLIDS AS A FERTILIZER

Biosolids Generation

Biosolids are the accumulated, treated solids separated from water during the treatment of wastewater by public and private wastewater treatment plants (Generators). The Generator is responsible for supplying biosolids that are suitable for land application under state and federal regulations.

Benefits of Biosolids

Biosolids provide nitrogen in a form that can be taken up by plants during their growth cycle. Biosolids also add phosphorus to the soil. If lime is added to biosolids, the biosolids will have the added benefit of a liming agent. Biosolids contain primary, secondary and micronutrients that can be used by plants. Biosolids are primarily an organic material; when added to soil, they improve water and nutrient retention, reduce erosion potential and improve soil structure.

The Permitting Process

Once the farm operator requests biosolids, a Synagro representative initially evaluates the farm for truck access and field conditions. If the farm is found to be suitable and the Request for Biosolids and the Consent for Biosolids forms are signed, Synagro will collect soil samples and have them analyzed by an independent laboratory.

Synagro will then apply for any federal, state or local permits required for biosolids application. The permits will specifically identify the fields to which biosolids will be applied and will be issued to Synagro or the Generator.

After the permits are obtained (a process that may take several months or more) Synagro will apply biosolids, as they become available, to the fields. Availability of biosolids may vary because of weather conditions, contractual arrangements with biosolids generators and other factors. Although the company cannot guarantee biosolids application because of factors beyond its control, Synagro will use its best efforts to apply biosolids to the permitted fields.

The conditions outlined in the permit will apply to any and all biosolids applications made by Synagro. Synagro will not e responsible for biosolids application made by any other entity.

Periodic visits to the land application site(s) by federal, state and local regulatory staff and Synagro representatives may occur for the purpose of permitting the site, inspecting the site, applying biosolids, obtaining samples at the site and testing. Proper identification will be provided upon request.

Agronomic Considerations

Tractor-trailer units are used to deliver biosolids to the fields approved for biosolids applications. Soil compaction may occur on the travel areas used by the trucks and in areas where biosolids are unloaded for transfer to the applicator vehicle.

Since some biosolids contain lime, it is important to recognize any increase in soil pH where biosolids have been applied and exercise care in using certain herbicides. If considering the use of a sulfonylurea herbicide, particular attention should be paid to any label restrictions. High soil pH and dry weather may slow decomposition of these chemicals, resulting in carryover. For soils with low manganese levels, increased soil pH from lime addition (alone or in lime treated biosolids) may reduce manganese availability and thereby potentially reduce crop yields.

In planning a herbicide program, it should be noted that seeds may sometimes survive the biosolids treatment process — for example, tomato seeds. Also, the organic matter additions from biosolids application (organic matter tends to tie up certain herbicides) may require increased herbicide application rates. Consult your extension agent or chemical representative for a specific recommendation.

Biosolids contain salts. Biosolids applications alone rarely cause salt problems. However, if combined with other significant salt-increasing factors, such as drought, excessive soil compaction, saline irrigation water and salt-contain fertilizers, salts may reach levels that could negatively affect germination and growth of some crops.

While odors from biosolids applications are not usually significant, and typically less than that from livestock manure, it is possible that an odor from the decomposition of organic matter may be noticed. It this occurs, it generally disappears in a short time.

Since biosolids provide nitrogen that will be released slowly throughout the growing season with diminishing carryover in subsequent years, it is important to reduce the use of nitrogen and other fertilizers to appropriate levels.

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

	LICATION AGREEMEN		1 4 4 1 1.111	SIDUALS
"Landowner", and <u>Synagro</u> , terminated in writing by eith event of a sale of one or mo identified in this agreement	reement is made on 12, referred to here as the "Pe her party or, with respect to here parcels, until ownership changes, those parcels for strial residuals under this ag	rmittee". This agree those parcels that a of all parcels chang which ownership ha	ement remains in effect re retained by the Land les. If ownership of ind	ferred to here as until it is owner in the lyidual parcels
Landowner: The Landowner is the owner the agricultural, silvicultural attached as Exhibit A.	er of record of the real prope or reclamation sites identific	erty located in 1/1/10 ed below in Table 4	William , Virginia, and identified on the te	which includes x map(s)
Table 1.: Parcels auti	horized to receive biosolids,	, water treatment res	siduals or other industri	al sludges
<u>Tax Parcel ID</u>	Tax Parcel ID	Tax Parce	el ID Tax	Registration (Parcel ID)
37-65				
] Additional parcels containing Land	Application Sites are identified or	Supplement A /sheek If	oppliants)	
	Landowner is the sole owr	33.537 57	58-58 \$	
	Landowner is one of multip	ple owners of the pr	operties identified here	in.
later than the date of	vner sells or transfers all or st date of biosolids applicati r or transferee of the applica of the property transfer; and of the sale within two week	ion, the Landowner able public access a	shall: ind crop management r	
The Landowner has no other notify the Permittee immediation or any part of incorrect.	ately if conditions change su	uch that the fields ar	e no longer available to	the Permittee
The Landowner hereby grar agricultural sites identified a inspections on the land iden purpose of determining com	bove and in Exhibit A. The tilled above, before, during	Landowner also gra or after land applica	ants permission for DEC	staff to conduct
	r treatment residuals F	ood processing was Yes ☐ No		
In Jesteu La Dalver M	CD DIC	1004	1215 Paralles	J Ra
Landowner - Printed Name, Title	Signature	Land Control of the C	Malling Address	136.
Permittee:	. •		DING MICH	AM, YA. 23081
Synagro, the Permittee, agrees by the VPA Permit Regulation a each land application field by a	and in amounts not to exceed t	he rates identified in ti	ne nutrient management r	nanner authorized plan prepared for
The Permittee agrees to notify a specifically prior to any particular	the Landowner or the Landown	er's designee of the n	ronosed schedule for land	d application and
II I reviewed the document(s) a document(s) available to DEQ (assigning signatory authority to	the person signing to	r landowner above will	make a conv of this
		ν.	1681 Tappahuma	ch Blvd.
Permittee - Authorized Represent Printed Name	ialive Signature	Weller	Toppy Address	VA 27560

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: <u>Synagro</u>	County or City:_	King William
Landowner: Westey Walker IT.		
J		

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the Implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field
as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land
application at that site is completed.

2. Public Access

 a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosoilds,

Public access to land with a low potential for public exposure shall be restricted for at least 30 days
following any application of biosolids. No biosolids amended soil shall be excavated or removed from
the site during this same period of time unless adequate provisions are made to prevent public
exposure to soil, dusts or aerosols;

c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3. Crop Restrictions:

a. Food crops with harvested parts that touch the biosolids/soll mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.

b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of blosolids when the blosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil.

c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.

d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;

e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days.
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial
 residuals applications such that the total crop needs for nutrients are not exceeded as identified in the
 nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of
 Virginia;
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

12-12-16

Date

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

				3	
PART D-VI: LAND APP	LICATION AGREEMENT	- BIOSOLIDS AND INDUS	STRIAL RESIDUALS		
A. This land application ag "Landowner", and <u>Synagro</u> terminated in writing by eith event of a sale of one or mandentified in this agreement	reement is made on 12/1; , referred to here as the "Per ner party or, with respect to the ore parcels, until ownership or	miltee". This agreement remanded parcels that are retained of all parcels changes. If ownership has changed	referred to here as lins in effect until it is by the Landowner in the	ALS	
attached as Exhibit A.	or reciamation sites identifie	ty located in <u>King Willian</u> d below in Table I and identifi	ed on the tax map(s)		
Table 1.: Parcels aut	horized to receive biosolids,	water treatment residuals or o	ther industrial sludges	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID		
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				The state of the s	
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	l Application Sites are identified on :		AND AND AND AND THE PROPERTY OF AN AND AN AND AND AND AND AND AND AND A	174	
u ine	E Landowner is one of multiple	er of the properties Identified h e owners of the properties Ide	ntified herein.		
Notify the purchase later than the date of	at date of biosomos abbircatio	ole public access and crop ma			
The Landowner has no othe notify the Permittee immedia	r agreements for land applicately if conditions change suc	ation on the fields identified he ch that the fields are no longer alid or the information herein o	ntentinia in the Hearth and the	electrosta e detractación de la compario de la comp	
inspections on the land iden purpose of determining com	bove and in Exhibit A. The i tifled above, before, during o pliance with regulatory requir	ne to land apply residuals as spandowner also grants permiss r after land application of perm rements applicable to such app	ion for DEQ staff to conduct nitted residuals for the plication.	The second designation of the second	
X Yes INO X Yes Henry L. Previs Gregory J. Previs Et A Landowner - Ponted Name Title	1 No XHenry &	90 No XYE	use LANding (Chyllin		
David Previs	2000	& HELZE FONDING C	Address William Ver 23	086	
Synagro, the Permittee, agrees by the VPA Permit Regulation a	ny in ambunis noi 10 exceen ine	rial residuals on the Landowner's e rates identified in the nutrient ma vith §10.1-104.2 of the Code of Vi	100000000000000000000000000000000000000		
The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.					
I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)					
1681 Tappahannoch Blvd.					
<u>ルン・リュア (- La JChb : バ</u> Permittee – Aulhorized Represent Printed Name	alive Signature		Address		

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: <u>Synagro</u>	_County or City: King William
Landowner: Henry L. Prevx	
Greatry J. Grevis ET-ALS Landowner Site Management Requiremen	ts:
I, the Landowner, I have received a DEQ Biosolids governing the land application of biosolids, the col biosolids.	s Fact Sheet that includes information regarding regulations inponents of biosolids and proper handling and land application of
I have also been expressly advised by the Permitt restrictions identified below must be complied with protect public health, and that I am responsible for	ee that the site management requirements and site access after biosolids have been applied on my properly in order to the implementation of these practices.
l agree to implement the following site manageme application of biosolids at the site:	nt practices at each site under my ownership following the land
 Notification Signs: I will not remove any sign as a biosolids land application site, unless na application at that site is completed. 	ns posted by the Permittee for the purpose of identifying my field equested by the Permittee, until at least 30 days after land
b. Public access to land with a low pote following any application of biosolids the site during this same period of the exposure to soll, dusts or aerosols; c. Turf grown on land where biosolids of biosolids when the harvested turf or a lawn, unless otherwise specified 3. Crop Restrictions: a. Food crops with harvested parts the surface shall not be harvested for 14 b. Food crops with harvested parts belief after the application of biosolids when four (4) or more months prior to incompose the parts belief when the biosolids remain on the lar incorporation. d. Other food crops and fiber crops shall	ential for public exposure shall be restricted for at least 30 days. No biosolids amended soil shall be excavated or removed from me unless adequate provisions are made to prevent public are applied shall not be harvested for one year after application is placed on either land with a high potential for public exposure if by DEQ. It touch the biosolids/soil mixture and are totally above the land months after the application of biosolids. The biosolids remain on the land surface for a time period of the biosolids remain on the land surface for a time period of
Livestock Access Restrictions: Following biosolids application to pasture a. Meat producing livestock shall not be b. Lactating dairy animals shall not be c. Other animals shall be restricted from	grazed for 30 days, grazed for a minimum of 60 days,
5. Supplemental commercial fertilizer or manuscressiduals applications such that the total cross	e applications will be coordinated with the biosolids and industrial needs for nutrients are not exceeded as identified in the erson certified in accordance with §10.1-104.2 of the Code of
exceeding 0.45 pounds/acre (0.5 kilograms/f	imulate cadmium, should not be grown on the Landowner's land poolids or industrial residuals which bear cadmium equal to or sectare).
Landowner Signature	Date
ev 9/14/2012	Des 17 7 Page 2012

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

A. This land application agr "Landowner", and <u>Synagro</u> , terminated in writing by eith event of a sale of one or mo identified in this agreement to receive biosolids or indus	trial residuals under this agre	between betwee	referred to here as referred to here as mains in effect until it is ad by the Landowner in the mership of individual parcels ad will no longer be authorized	Jaiker	
the agricultural, silvicultural attached as Exhibit A.	or reclamation sites identified	l below in Table 1 and iden			
Table 1.: Parcels auti	norized to receive biosolids, v	ater treatment residuals or	other industrial sludges		
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	<u>Tax Parcel ID</u>		
45-8B					

Additional parcels containing Land	Application Sites are Identified on S	l Jupplement A (check If applicable)			
Check one:	Landowner is the sole owne Landowner is one of multiple	r of the properties Identified o owners of the properties i	d herein. Identified herein,		
within 38 months of the late: 1. Notify the purchase later than the date of	vner sells or transfers all or pa st date of biosolids application r or transferee of the applicab of the property transfer; and of the sale within two weeks	n, the Landowner shall: le public access and crop i	management restrictions no		
notify the Permittee immedia	The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes				
agricultural sites identified a inspections on the land iden	The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.				
Class B blosolids Wate X Yes I No X Yes Westey A. Walker Sandra F. Walker		od processing waste X	Other industrial sludges Yes No	٨ (
Landowner - Printed Name, Title	Signature	Me Me	Illing Address	<u>.</u>	
Permittee:	•		Numbillial Rush	230%	
Synagro, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.					
The Permittee agrees to notify specifically prior to any particular	the Landowner or the Landowne ar application to the Landowner's	r's designee of the proposed a s land. Notice shall include the	schedule for land application and e source of residuals to be applied.		
If I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)					
		1681	Tappahonnocu, Bivd		
Permittee — Authorized Represen Printed Name	talive Signature	Willer Tapp	Makannsch , VA 22560 Illing Address		

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: <u>Synagro</u>	County or City: 1809 1831 1300
Landowner: Westey A. Walker	
Sandraif Walker	···
Landownon Cita Management Desident	

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field
as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land
application at that site is completed.

2. Public Access

a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.

Public access to land with a low potential for public exposure shall be restricted for at least 30 days
following any application of biosolids. No biosolids amended soil shall be excavated or removed from
the site during this same period of time unless adequate provisions are made to prevent public
exposure to soil, dusts or aerosois;

c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3. Crop Restrictions:

 Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.

b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil.

c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.

d. Other food crops and fiber crops shall not be harvested for 30 days after the application of blosolids;

Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days,
- c. Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

Dale

VIRGINIA POLLUTION ABATEMENT PERIVIT APPLICATION FORW D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APP	LICATION AGREEMENT	- BIOSOLIDS AND INDU	STRIAL RESIDUALS		
terminated in writing by eith event of a sale of one or me identified in this agreement	reement is made on 12/1, referred to here as the "Perrier party or, with respect to the parcels, until ownership of changes, those parcels for watrial residuals under this agree.	nittee". This agreement remose parcels that are retained fall parcels changes. If ownership has change	alns in effect until It is		
Landowner: The Landowner is the owner the agricultural, silvicultural attached as Exhibit A.	er of record of the real proper or reclamation sites identified	ty located in <u>king la)illian</u> d below in Table 1 and ident	/, Virginia, which includes fied on the tax map(s)		
Table 1.: Parcels aut	horized to receive biosolids, v	vater treatment residuals or	other industrial sludges		
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID		
45-7B	Annual Control of the Street o	An a married straight dates when I sensitives.			
Additional parcels containing Land	d Application Sites are Identified on S	Bupplement A (check II applicable)	The spinor was and place of the spinor was a second spinor with the spinor was a second spinor was a second spinor was a second spinor with the spinor was a second spinor with the spinor was a second spinor was a second spinor with the spinor was a second spinor was a second spinor was a second spinor was a second sp		
Check one:	Landowner is the sole owner	er of the properties Identified	herein.		
	Landowner is one of multiple	e owners of the properties ic	lentifled herein.		
1. Notify the purchase later than the date	vner sells or transfers all or p st date of blosolids applicatio r or transferee of the applicat of the property transfer; and of the sale within two weeks	n, the Landowner shall: ble public access and crop m	The state of the s		
The Landowner has no other notify the Permittee immediately	The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes				
agricultural sites identified a inspections on the land iden purpose of determining com	The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.				
Class B biosolids Wate X Yes □ No X Yes			<u>her industrial sludges</u> Yes □ No		
Wester A. Walker	10 U Sto	Dh 1215 L	DEED FOR KI.		
Landowner - Printed Name, Title	Signalurg		ng Address		
Permittee:	•	Nin	MINIAM VA. 23081		
by the VPA Permit Regulation a	to apply biosolids and/or industr and in amounts not to exceed the person certified in accordance v	rates Identified in the nutrient	's land in the manner authorized management plan prepared for Virginia.		
The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.					
If I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)					
1681 Tappahanack Bird					
Permittee – Authorized Represen Printed Name	talive Signature	NJCNNA GAGOR	a <u>hàmnak, V4 22560</u> ng Address		

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Synagro	County or City: King William
Landowner: Westeg A. Walker	The state of the s

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

 Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

2. Public Access

- Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- Public access to land with a low potential for public exposure shall be restricted for at least 30 days
 following any application of biosolids. No biosolids amended soil shall be excavated or removed from
 the site during this same period of time unless adequate provisions are made to prevent public
 exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3. Crop Restrictions:

- Food crops with harvested parts that touch the biosolids/soll mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:

Following biosolids application to pasture or havland sites:

- a. Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

12-13-16 Date

Rev 9/14/2012

Page 2 of 2

TAX ID LANDOWNER IDENTIFICATION SHEET

Landowner	Field Number	Tax ID
Wesley Walker III	40-01	37-65
Wesley A. Walker	40-02	45-7B
Wesley A. Walker	40-03	45-7B
Wesley A. Walker	40-04	45-7B
Wesley A. Walker	40-05	45-8B
Sandra F. Walker	40-00	40-0D
Henry L. Previs	40-08	53-66
Gregory J. Previs Et Als	40-00	33-00
Wesley A. Walker	40-12	45-7
Sandra F. Walker	70-12	70-7

Field Number	Latitude (North)	Longitude (West)
40-01	37.671°	-77.009°
40-02	37.662°	-77.021°
40-03	37.661°	-77.022°
40-04	37.657°	-77.022°
40-05	37.661°	-77.027°
40-08	37.611°	-76.977°
40-12	37.660°	-77.016°

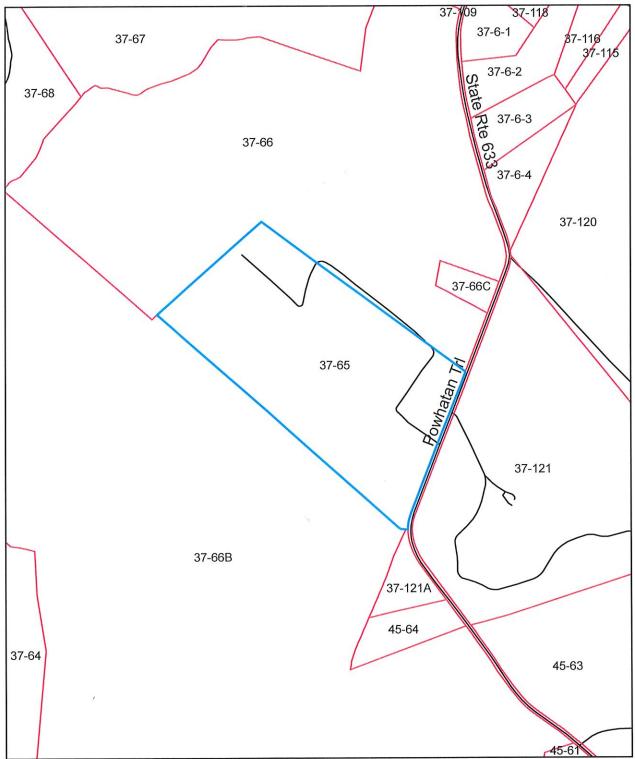
^{*} Latitude/longitude determined by Arc GIS program

Haul Route:

The Location maps in conjunction with the above latitude and longitude coordinates are a route planning tool meant to be a guide to indicate suggested haul routes for various preferences: to include but not limited to all federal, state, and local granted STAA access routes.



Wesley A. Walker KW 40 Field 1



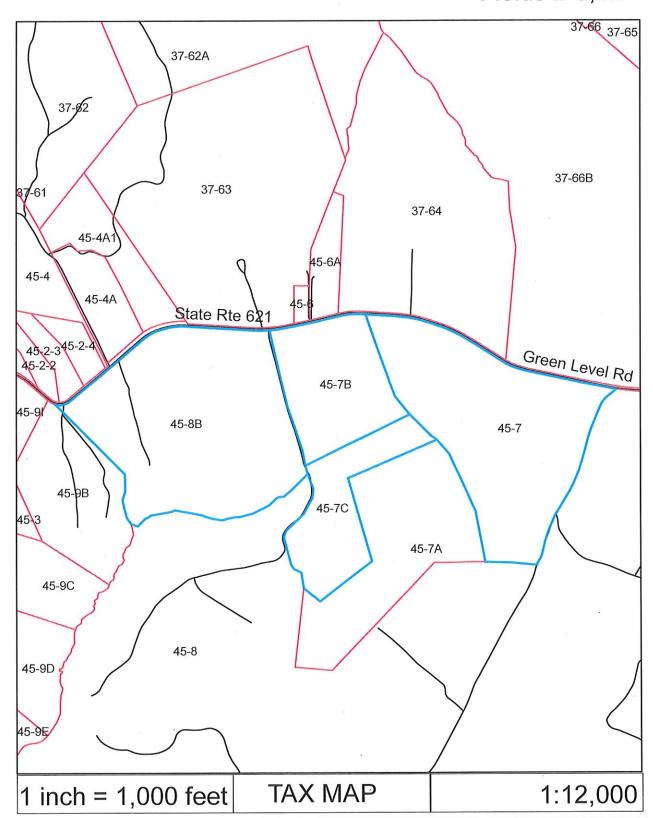


1 inch = 660 feet

TAX MAP

1:7,920

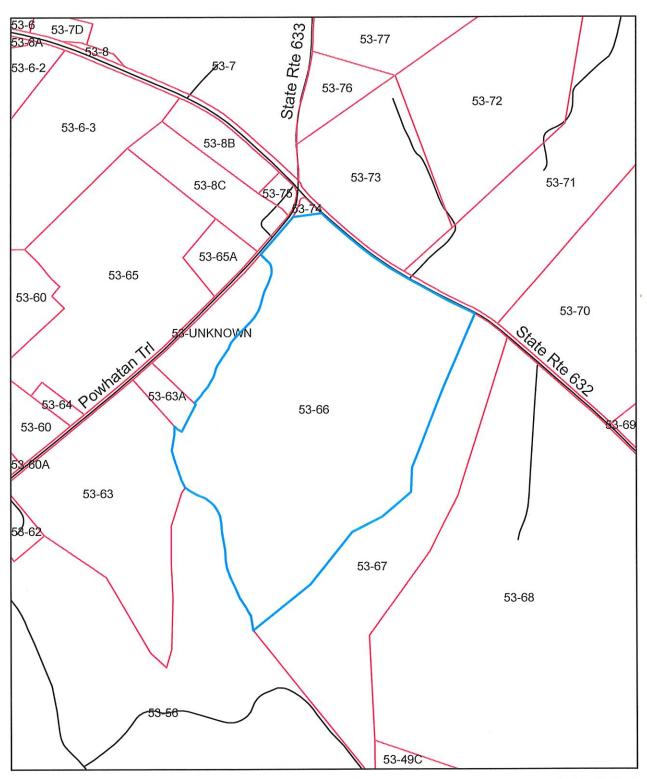
Wesley A. Walker KW 40 Fields 2-5,12







Wesley A. Walker KW 40 Field 8





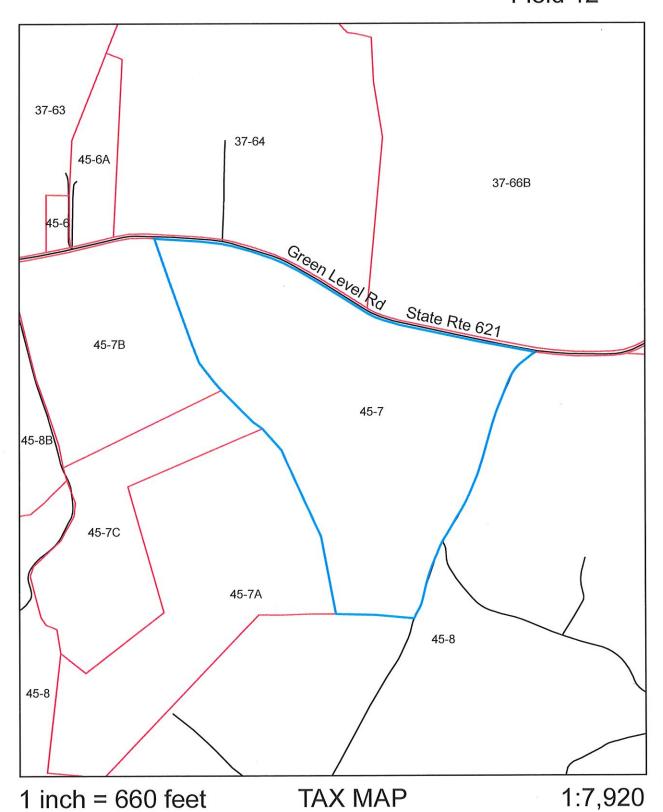
1 inch = 660 feet

TAX MAP

1:7,920



Wesley A. Walker KW 40 Field 12



Farm Summary Report

Plan: New Plan Fall, 2020 - Winter, 2030

Farm Name: New Farm
Location: King William
Specialist: Hunter Davis

N-based Acres: 347.8 P-based Acres: 0.0

Tract Name: KW 40 FSA Number: 0

Location: King William

Field Name: 1

Total Acres: 42.00 Usable Acres: 42.00

FSA Number: 0 Tract: K\

Tract: KW 40

Location: King William

Slope Class: A Hydrologic Group: C

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

11 9A Daleville 89 26A Slagle

Field Warnings:

Crop Rotation:

PLANTED YIELD CROP NAME

Page 1 of 10 05/14/2020

Total Acres:

7.30 Usable Acres: 7.30

FSA Number: 0 Tract:

KW 40

Α

Location:

King William

Slope Class:

Hydrologic Group:

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

Р

Κ

Lab

[NO TEST]

PΗ

Soils:

PERCENT

SYMBOL

SOIL SERIES

22 41

Daleville 9A 26A Slagle

37

Slagle 26B

Field Warnings:

Crop Rotation:

PLANTED

YIELD

CROP NAME

05/14/2020 Page 2 of 10

Total Acres: 21.40 Usable Acres: 21.40

FSA Number: 0 Tract: KW 40

Location: King William

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

27 9A Daleville
 30 26A Slagle
 44 26B Slagle

Field Warnings:

Crop Rotation:

PLANTED YIELD CROP NAME

Page 3 of 10 05/14/2020

4

Total Acres:

15.80 Usable Acres: 15.80

Tract:

FSA Number: 0

Hact.

KW 40

С

Location:

King William

Slope Class:

Hydrologic Group:

С

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

Р

Κ

Lab

[NO TEST]

PΗ

Soils:

PERCENT

SYMBOL

SOIL SERIES

4 50 9A

Daleville

59 13 10B 22F Emporia Nevarc Remlik

24

26B

Slagle

Field Warnings:

Crop Rotation:

PLANTED

YIELD

CROP NAME

Page 4 of 10 05/14/2020

Total Acres:

76.80 Usable Acres: 76.80

FSA Number: 0 Tract:

С

KW 40

Location:

King William

Slope Class:

Hydrologic Group:

С

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

Р PH

K

Lab

[NO TEST]

Soils:

PERCENT

SYMBOL

SOIL SERIES

16 5

9A Daleville Emporia 10A

11

10B Emporia 22F Nevarc Remlik

16 48

Slagle 26A

5

26B Slagle

Field Warnings:

Crop Rotation:

PLANTED YIELD **CROP NAME**

Page 5 of 10 05/14/2020

Total Acres: 50.40 Usable Acres: 50.40

FSA Number: 0 Tract: KW 40

Location: King William

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SOIL SERIES SYMBOL Daleville 9 9A 1 Emporia 10A 21 10B Emporia 41 26A Slagle 29 Slagle 26B

Field Warnings:

Crop Rotation:

PLANTED YIELD CROP NAME

Page 6 of 10 05/14/2020

Total Acres:

Usable Acres: 7.70

FSA Number: 0

Tract:

KW 40

7.70

Location:

King William Hydrologic Group:

Slope Class: Α С

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH

Р

Κ

Lab

[NO TEST]

Soils:

PERCENT

SOIL SERIES SYMBOL

14 23

Daleville 9A 10A Emporia

64

Slagle 26A

Field Warnings:

Crop Rotation:

PLANTED

YIELD

CROP NAME

05/14/2020 Page 7 of 10

Total Acres:

48.90 Usable Acres: 48.90

FSA Number: 0

Tract: Location: KW 40

Slope Class:

King William

Hydrologic Group:

C

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH

Ρ

Κ

Lab

[NO TEST]

Soils:

PERCENT

SYMBOL

SOIL SERIES

4

9A Daleville

64

10B Emporia

4

Eulonia 11B

28

Slagle 26B

Field Warnings:

Crop Rotation:

PLANTED

YIELD

CROP NAME

05/14/2020 Page 8 of 10

Total Acres: 2.70 Usable Acres: 2.70

FSA Number: 0 Tract: KW 40

Location: King William

Slope Class: D Hydrologic Group: C

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

34 22F Nevarc Remlik 66 27A STATE1

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Soils with perent slope in excess of 15%

Crop Rotation:

PLANTED YIELD CROP NAME

Page 9 of 10 05/14/2020

Total Acres: 74.80 Usable Acres: 74.80

FSA Number: 0 Tract: KW 40

Location: King William

Slope Class: A Hydrologic Group: B

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

70 9A Daleville 25 26A Slagle 5 26B Slagle

Field Warnings:

Crop Rotation:

PLANTED YIELD CROP NAME

Page 10 of 10 05/14/2020

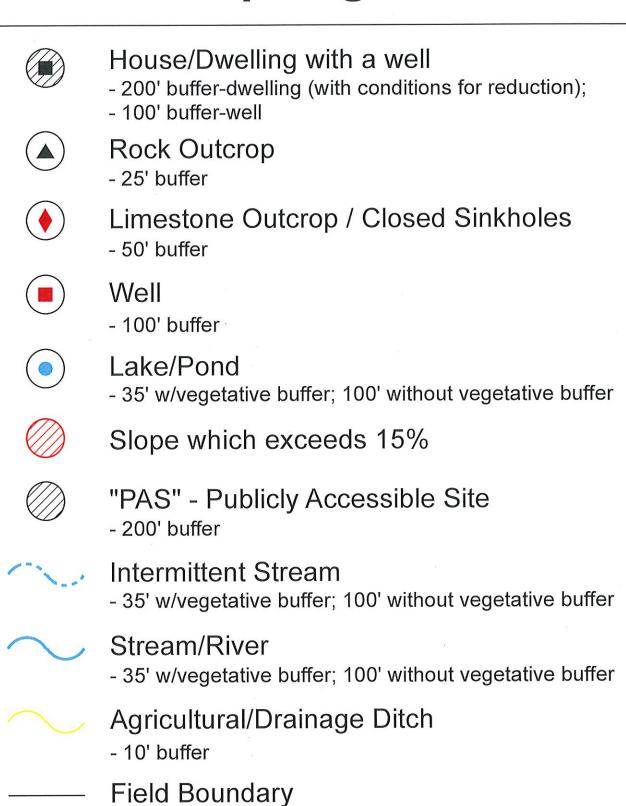
ENVIRONMENTALLY SENSITIVE AREAS

Field	Reason for Sensitive Area
40-01	High Water Table (Map Unit 9A - 9.8%)
40-02	High Water Table (Map Unit 9A - 21.6%)
40-03	High Water Table (Map Unit 9A - 27.7%)
40-04	High Water Table (Map Unit 9A - 0.7%)
40-05	High Water Table (Map Unit 9A - 16.5%)
40-08	High Water Table (Map Unit 9A - 3.6%)
40-12	High Water Potential (Map Unit 9A - 69.5%)

King William County Soils that are Environmentally Sensitive

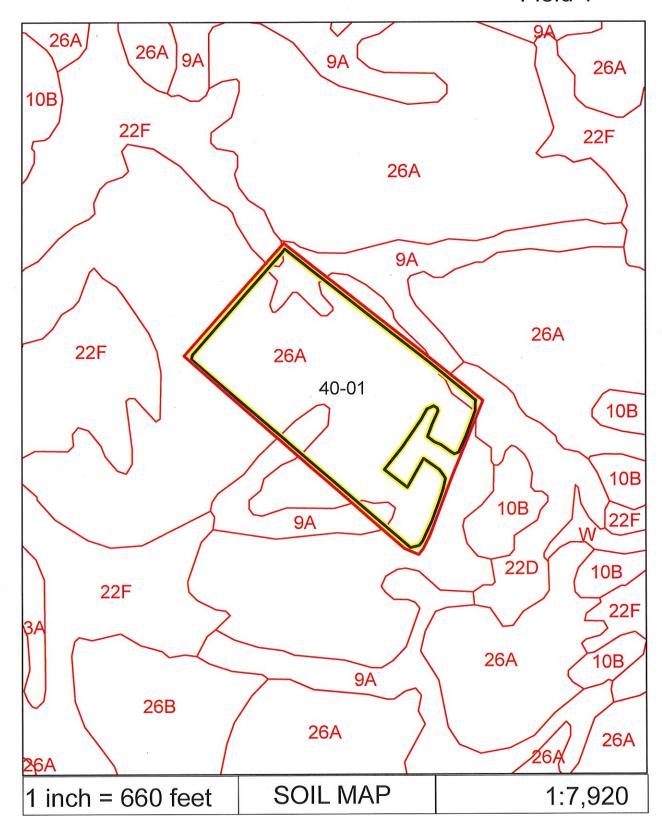
Soil Map Unit	Series Name	Time of year		Environmental
·		High Water	Flooded	
3A	Bibb/Kinston	Nov-June	Nov-June	Drainage
4A	Bohicket	Nov-June	Nov-June	
5A	Bojac	Jan-Dec		Leaching
6A, 6B	Bojac			Leaching
7A	Catpoint		211 111 11 11 11 11 11 11 11 11 11 11 11	Leaching
8A	Conetoe			Leaching
9A	Daleville	Nov-May		
14A	Kenansville			Leaching
15A	Lanexa	Jan-Dec	Jan-Dec	Drainage
16A	Mattan	Jan-Dec	Jan-Dec	Drainage
18A	Myatt	Nov-April		
20A	Osier	Nov-March		Drainage
22D, 22F	Remilk/Nevarc			Leaching
23A	Riverview		Dec-March)
24A	Roanoke	Nov-May		
29B, 29D, 29F	Tarboro			Leaching
30A	Tomotley	Nov-April		
32A	Wehadkee	Nov-May	Nov-May	

Map Legend

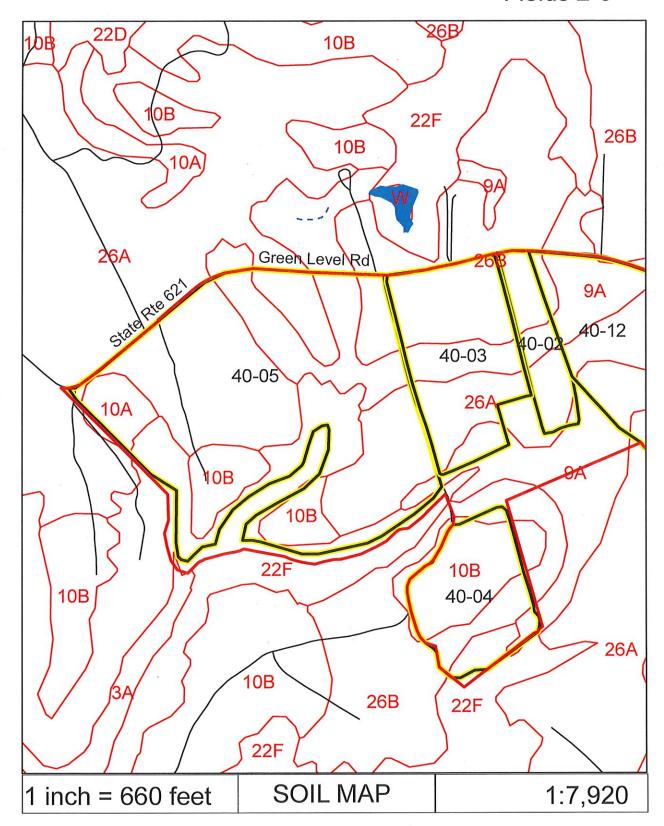


— Property Line

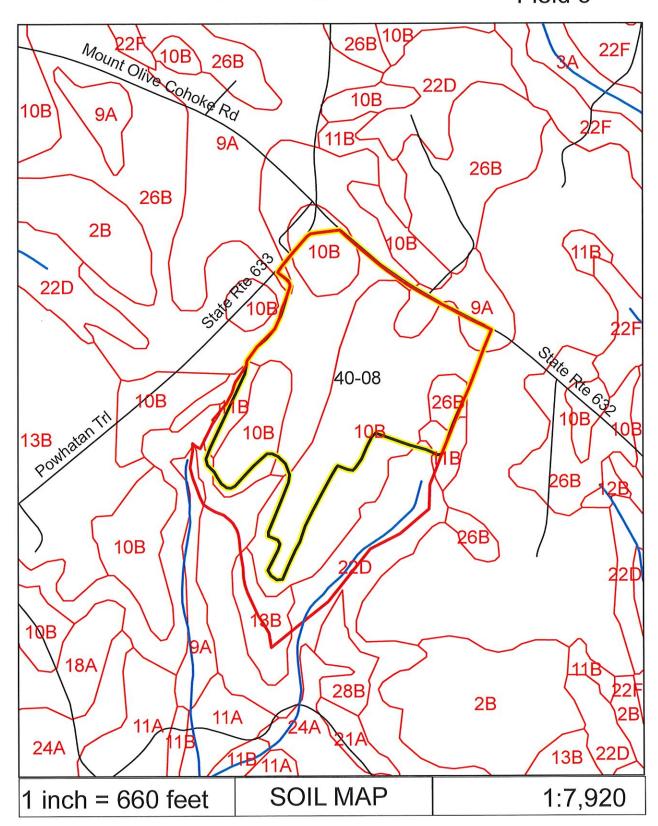
- 100' buffer unless waiver issued



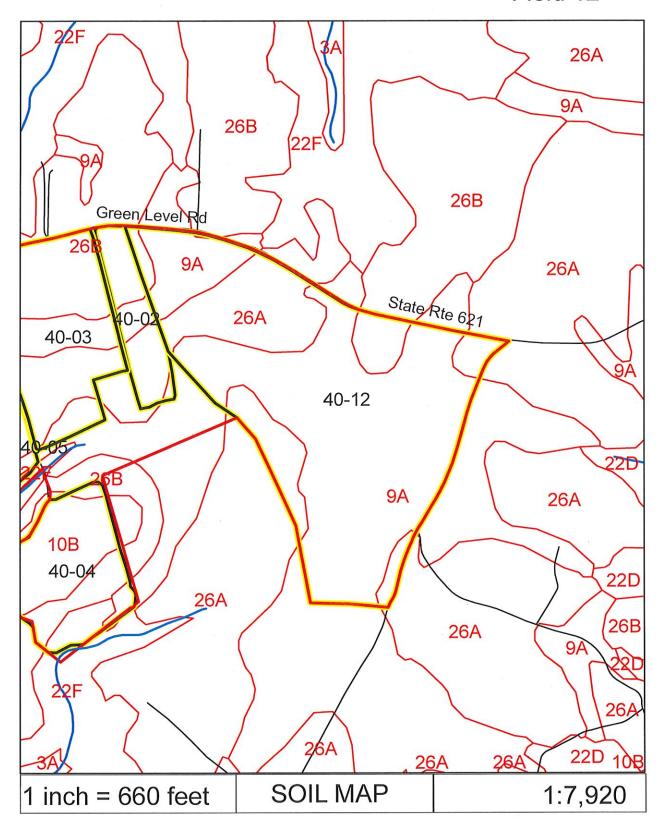
























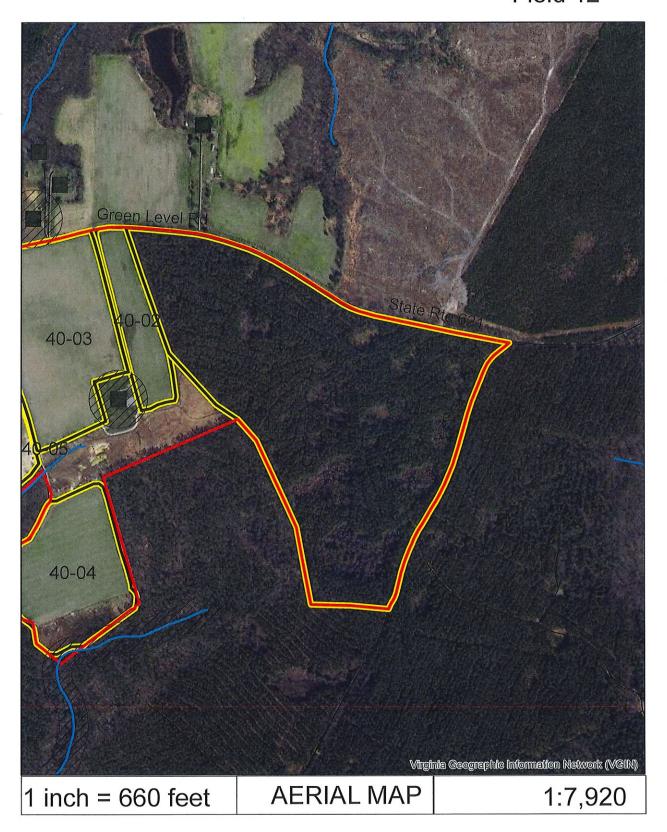


Wesley A. Walker KW 40 Field 8



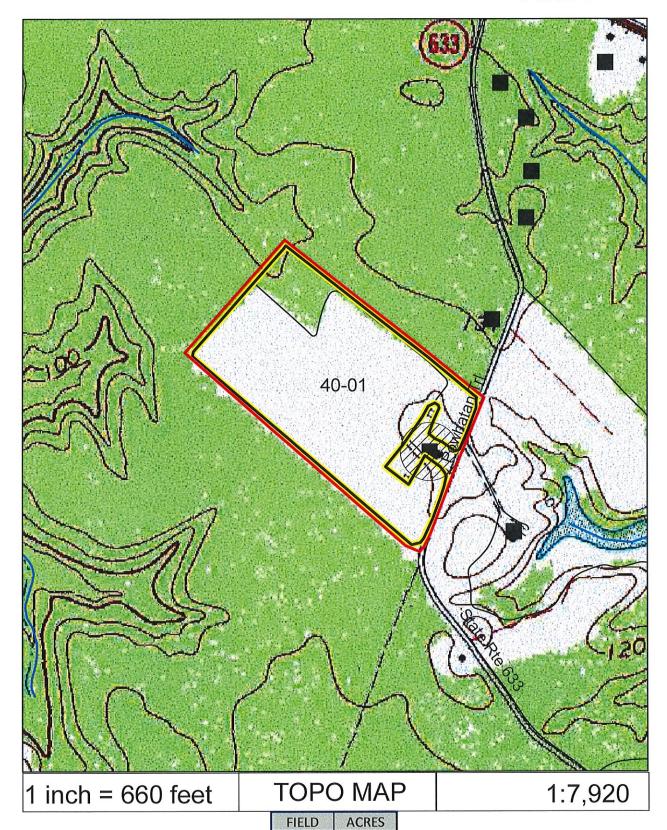
(2)

Revised 8/25/2021





Wesley A. Walker KW 40 Field 1

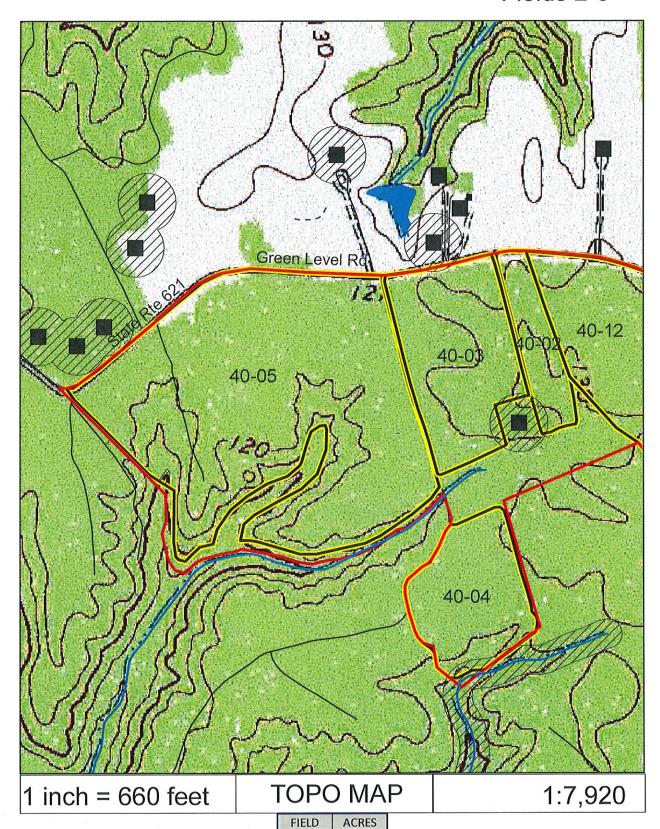


40-01

42.0



Wesley A. Walker KW 40 Fields 2-5



40-02

40-03 40-04

40-05

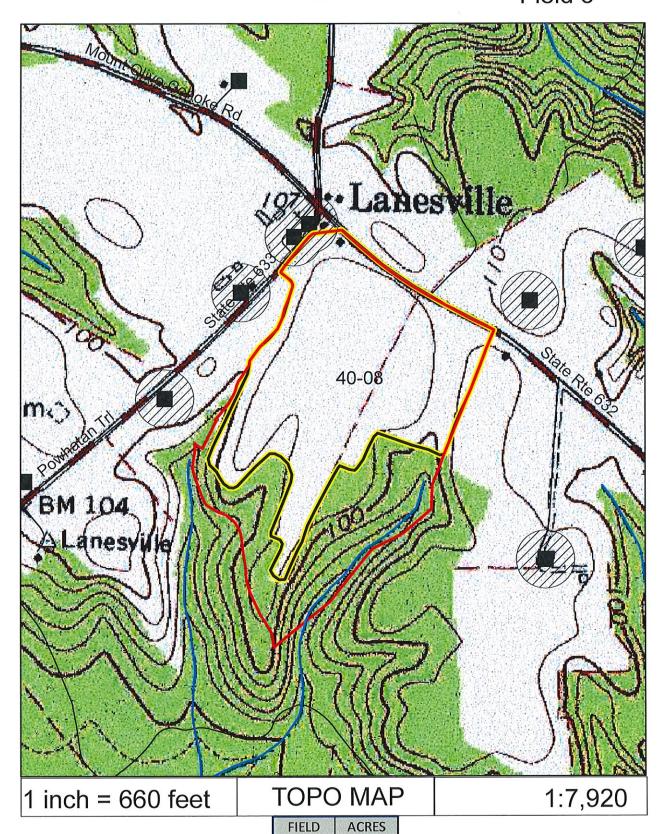
7.3 21.4

15.8

76.8



Wesley A. Walker KW 40 Field 8

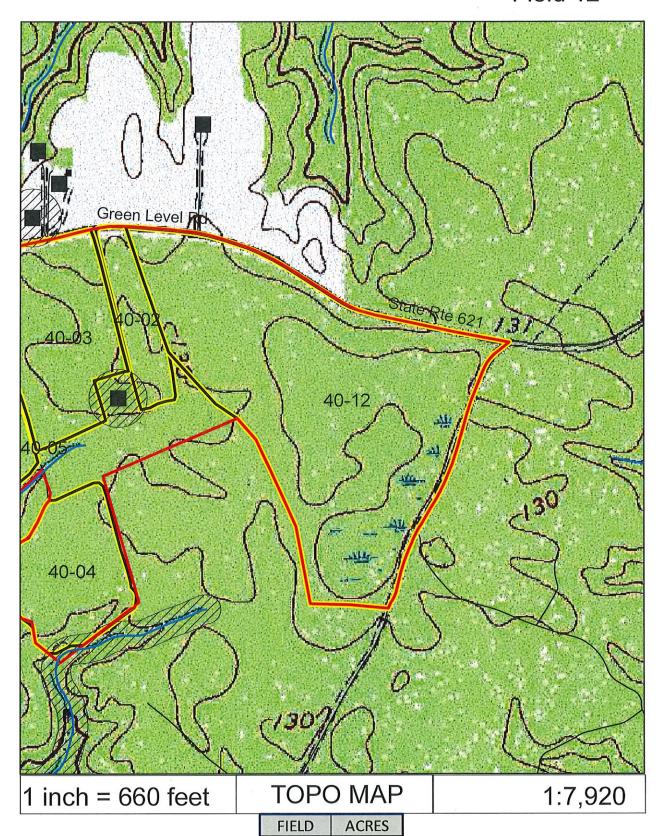


40-08

48.9



Wesley A. Walker KW 40 Field 12



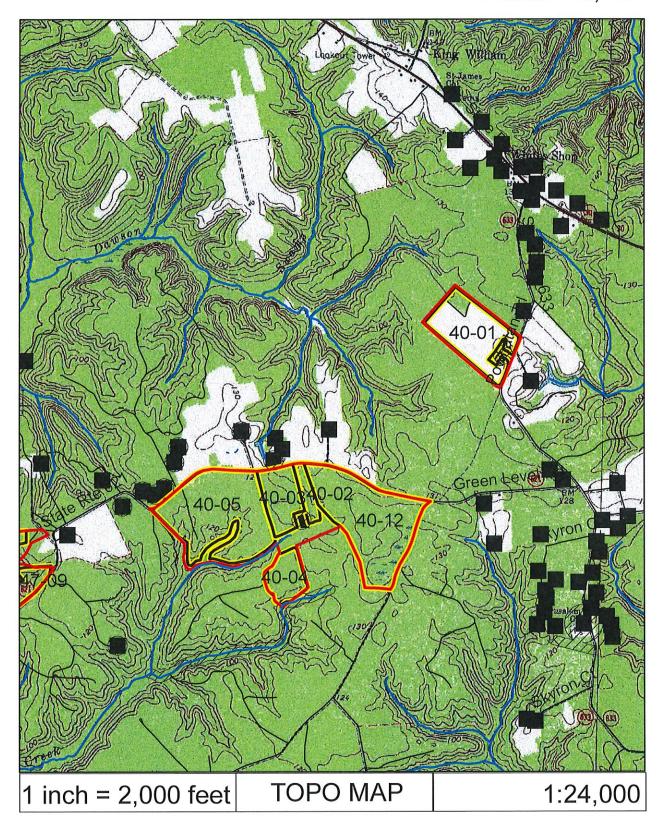
74.8

40-12



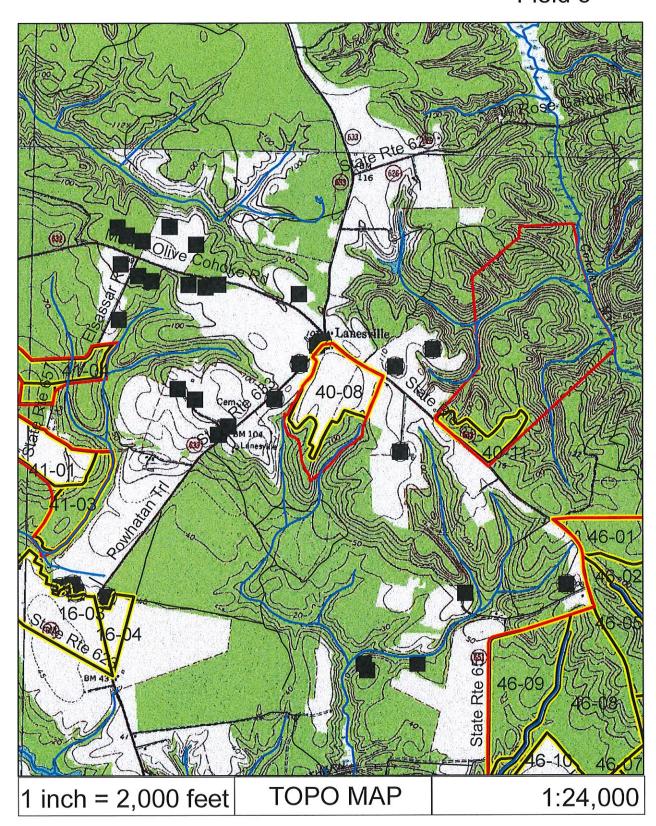


Wesley A. Walker KW 40 Fields 1-5,12



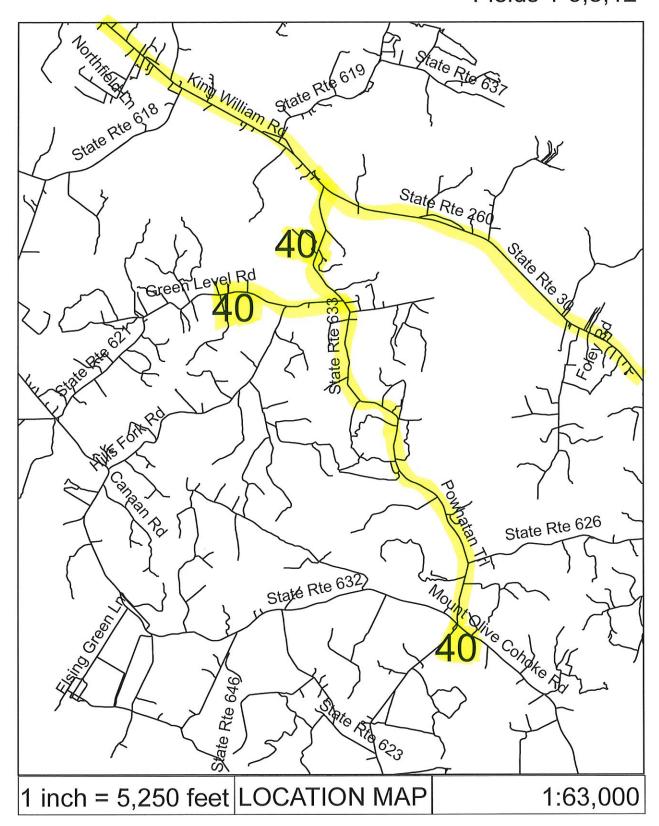




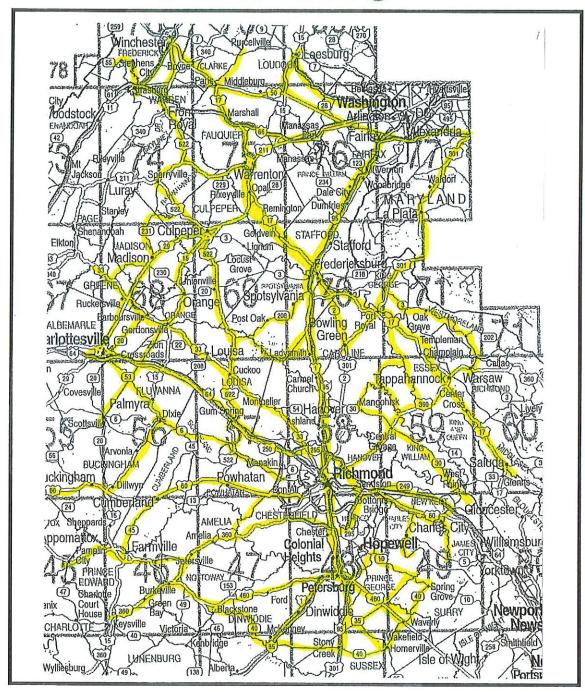




Wesley A. Walker KW 40 Fields 1-5,8,12









HAUL ROUTE MAP

This map highlights all major routes from the approved generators to the locations of our permitted land. The highlighted routes on our Location Map will pinpoint routes closer to the site.